



OGMCOAL DNR <ogmcoal@utah.gov>

Fwd: Eccles Creek culvert survey points__Stream Alteration Permit #15-91-0005

1 message

Priscilla Burton <priscillaburton@utah.gov>
To: OGMCOAL DNR <ogmcoal@utah.gov>

Fri, Oct 30, 2015 at 10:55 AM

----- Forwarded message -----

From: **Daren Rasmussen** <darenrasmussen@utah.gov>
Date: Fri, Oct 30, 2015 at 10:51 AM
Subject: Re: Eccles Creek culvert survey points__Stream Alteration Permit #15-91-0005
To: Priscilla Burton <priscillaburton@utah.gov>

Looks good from this office.

*-Daren Rasmussen, State Engineer's Office, State of Utah Dam Safety & Stream Alterations
Division of Water Rights - Department of Natural Resources
www.waterrights.utah.gov 801-538-7377 darenrasmussen@utah.gov*

On Thu, Oct 29, 2015 at 11:51 AM, Priscilla Burton <priscillaburton@utah.gov> wrote:
RE: Please see forwarded email below for the stream and culvert elevations.

I would like a response from each of you to the following question. Shall I confirm this approach with Hugh and allow Nelco Construction to proceed?

Thanks,
Priscilla Burton, MS, CPSSc
Environmental Scientist III
Utah Division of Oil, Gas & Mining
Price Field Office
phone: [435-613-3733](tel:435-613-3733)

----- Forwarded message -----

From: **hughc** <hughc@nelcocontractors.com>
Date: Thu, Oct 29, 2015 at 11:17 AM
Subject: RE: Eccles Creek culvert survey points__Stream Alteration Permit #15-91-0005
To: Priscilla Burton <priscillaburton@utah.gov>

Priscilla,
Here are our findings after shooting some elevations at Eccles Creek.
BM-1 8346.90
Top of Culvert on the up stream end.
8311.28
Water level at up stream end.
8311.28
Top of Culvert at down stream end.
8302.42

Water level at down stream end.
8306.56

The difference between the top of the culvert on the up stream (west) end to the down stream (east) end is 8.86 feet.

The water level only 10 feet up stream from the west end of the culvert is 1.22 feet above the top of the culvert.

It will be very easy to stay well above the culvert with the new channel by flattening the slope by a small margin.

I hope these measurements help.

Thanks

Hugh Christiansen
Project Manager
Nelco Contractors
435-749-2748
hughc@nelcocontractors.com

----- Original message -----

From: Priscilla Burton <priscillaburton@utah.gov>

Date: 10/28/2015 11:26 AM (GMT-07:00)

To: Hugh Christiansen <hughc@nelcocontractors.com>

Cc: Justin Hart - Utah Wildlife Resource <justinhart@utah.gov>, Cheryl Parker <cherylparker@utah.gov>, Keenan Storrar <kstorrar@utah.gov>, Daren Rasmussen <darenrasmussen@utah.gov>, Daron Haddock <daronhaddock@utah.gov>, Dana Dean <danadean@utah.gov>, OGMCOAL DNR <ogmcoal@utah.gov>

Subject: Eccles Creek culvert survey points__Stream Alteration Permit #15-91-0005

Hello Hugh,

Attached is the spreadsheet of data that was collected to prepare a figure showing the high water mark and cross section locations for the stream water alteration permit #15-91-0005. These points were measured from the bench mark that was surveyed in by Ben Grimes (the wooden stake with flagging across the highway). Can you provide surveyed elevations of the inlet and outlet of the culvert in relation to the water surface?

The change of plan that we have been discussing is to leave the 48 inch Eccles culvert in place, because it appears to be 2 to three feet below the existing water surface. i.e. The river drops down (about 3 feet) into the culvert at its inlet and the river bubbles up from the culvert at its outlet (from about 2.5 to 3 feet below the water surface). If the elevations of the inlet and outlet allow enough vertical drop, the more conservative approach of constructing the channel on top of the culvert is advantageous for several reasons.

- 1) Eccles Creek can continue to flow in the culvert during construction of the new channel.
- 2) We will not have to over-excavate the existing channel to remove the culvert and then build on fill.
- 3) The plugged culvert will be buried by rock in the channel.
- 4) The temporary 36 inch bypass will not be installed which will eliminate issues surrounding installation and removal of the bypass culvert (i.e. the over-excavation of the highway outslope and sediment entering the creek during removal).

The Division of Water Rights (Darin Rasmussen) and the Division of Wildlife Resources (Justin Hart) along with Division of Oil, Gas & Mining team (Keenan Storrar and Cheryl Parker) have been consulted about this change of plan to stream alteration permit #15-91-0005. All agencies, including DOGM, agree that this approach will create less disturbance, but all are concerned that the culvert be adequately covered and remain buried. All agencies agreed that the best way to accomplish that objective is to fill

both ends of the culvert with cement, so that when the culvert erodes through, it will quickly be filled with rock and sediment and not become a channel of flow.

Once we know the elevations of the inlet and outlet in relation to the water level, we can make a final decision.

Thank you,

Priscilla Burton, MS, CPSSc
Environmental Scientist III
Utah Division of Oil, Gas & Mining
Price Field Office
phone: [435-613-3733](tel:435-613-3733)